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What is claimed is:

1. A transgenic hairless mouse capable of expressing a full length or truncated human elastin promoter.

2. A mouse fibroblast culture derived from the
5 transgenic hairless mouse of claim 1.

3. A method of identifying compounds capable of inhibiting cutaneous photodamage comprising:

(a) applying a test compound to skin of the transgenic hairless mouse of claim 1;

10 (b) exposing the transgenic mouse to UVB radiation, UVA radiation, or solar simulating radiation; and

(c) measuring human elastin promoter activity in the transgenic hairless mouse, wherein a compound which decreases the measured human elastin promoter activity as
15 compared to control transgenic hairless mice inhibits cutaneous photodamage.

4. A method of identifying compounds capable of inhibiting cutaneous photodamage comprising:

(a) contacting the mouse fibroblast culture of
20 claim 2 with a test compound;

(b) exposing the mouse fibroblast culture to UVB radiation, UVA radiation or solar simulating radiation; and

(c) measuring human elastin promoter activity in the mouse fibroblast culture, wherein a compound which
25 decreases the measured human elastin promoter activity as compare to control mouse fibroblast culture inhibits cutaneous photodamage.

5. An in vitro system for identifying agents capable of inhibiting or preventing oxidative damage comprising:

30 the mouse fibroblast culture of claim 2; and

a means for generating reactive oxygen species within the mouse fibroblast culture.

5 adding a test agent suspected of providing protection
against oxidative damage to the mouse fibroblast culture of
claim 2;

10 determining human elastin promoter activity in the mouse
fibroblast culture exposed to the test agent after a selected
time period; and

comparing the determined human elastin promoter activity in the mouse fibroblast culture exposed to the test agent to human elastin promoter activity in a control fibroblast culture wherein a decrease in the determined human elastin promoter activity is indicative of the test agent inhibiting or preventing oxidative damage.

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	